SC-T-213-VEFF - Web Programming I

Assignment 1 – HTML & CSS

Reykjavik University Deadline: **28th January 2021, 23:59**

The topic of this assignment is: **Writing HTML and CSS code**.
This is a **group assignment**, which you can solve in groups of **up to 3 students**.

1 Building a web site based on a sketch

In the supplementary material of this assignment, you find four screenshots[1] of a responsive web site (*page_500px.jpg*, *page_650px.jpg*, *page_651px.jpg*, *page_1000px.jpg*). As the file names suggest, these show the web site at a width of 500 pixels, 650 pixels, 651 pixels, and 1000 pixels.

Your task will be to implement this website so that it resembles the screenshots as closely as possible. You will deliver the web site as a single HTML file and a single external CSS file. The used image files can be found in the supplementary material. There is one external font *Roboto Mono, Thin 100* from Google Fonts. To figure out the colours we used, you can use tools such as https://imagecolorpicker.com/.

Note that, for parts of the assignment, it might be required to investigate parts of HTML/CSS that have not (or not yet) been covered in the lectures.

The following requirements must be fulfilled in your solution. Note that violating some of these requirements can lead to severe point deduction - make sure to follow them closely and check the rubric before your submission!

1. The HTML document shall validate as an HTML 5 document without errors in the W3C validator (https://validator.w3.org), using automatic detection for the document type.

2. The CSS document shall validate as correct CSS with the *CSS Level 3 + SVG* profile in the W3C CSS Validator (https://jigsaw.w3.org/css-validator).

3. All dimensions (font sizes, paddings, margins) shall be approximately correct. This means that they do not have to be exact, but they shall not cause wrong layouting.

4. All images and text shall be as in the screenshots.

5. All images shall have an alt attribute, containing the name of the course the picture belongs to.

6. The items in the header ("Programs", "Courses", "Admission", "Contact") shall be hyperlinks pointing to the same document.

7. The web site shall be responsive. That means that all boxes re-size automatically when the width of the screen (or browser window) changes. Re-sizing has to work even on devices with virtual viewports. The following sub-requirements apply:

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[1]There might be small errors/artefacts from taking the screenshots. These are not intended and can be ignored.

(a) When the screen is larger than 650px and smaller than 1001px in width, each row shall contain two course boxes (as shown in *page_651px.jpg* and *page_1000px.jpg*).

(b) When the screen is smaller than 651px, course boxes shall be visible under each other (as shown in *page_650px.jpg* and *page_500px.jpg*). The course image and the course name shall be displayed above the other text for that course. Additionally, the four links in the header menu shall disappear and be replaced by a list symbol (use the *≡* symbol in HTML) that links to the same document. The header itself shall be displayed above the course boxes in full page width.

(c) The web site shall use the *Roboto Mono* font, Thin 100 style, when displayed on a screen.

8. All CSS code shall be placed in its own CSS file. No inline CSS is allowed.

9. No external CSS files (e.g., Bootstrap) are allowed. The only exception is for including fonts.

10. There shall be no use of JavaScript.

11. There is no requirement on how the website shall look under 500 pixels or over 1000 pixels.

12. The website will be assessed using Google Chrome and Mozilla Firefox, in responsive mode in both browsers.

Submission

The lab is submitted via Canvas. Submit a zip file containing one HTML, one accompanying CSS file, and all the image files (so that the website works out of the box). No late hand-ins are accepted.